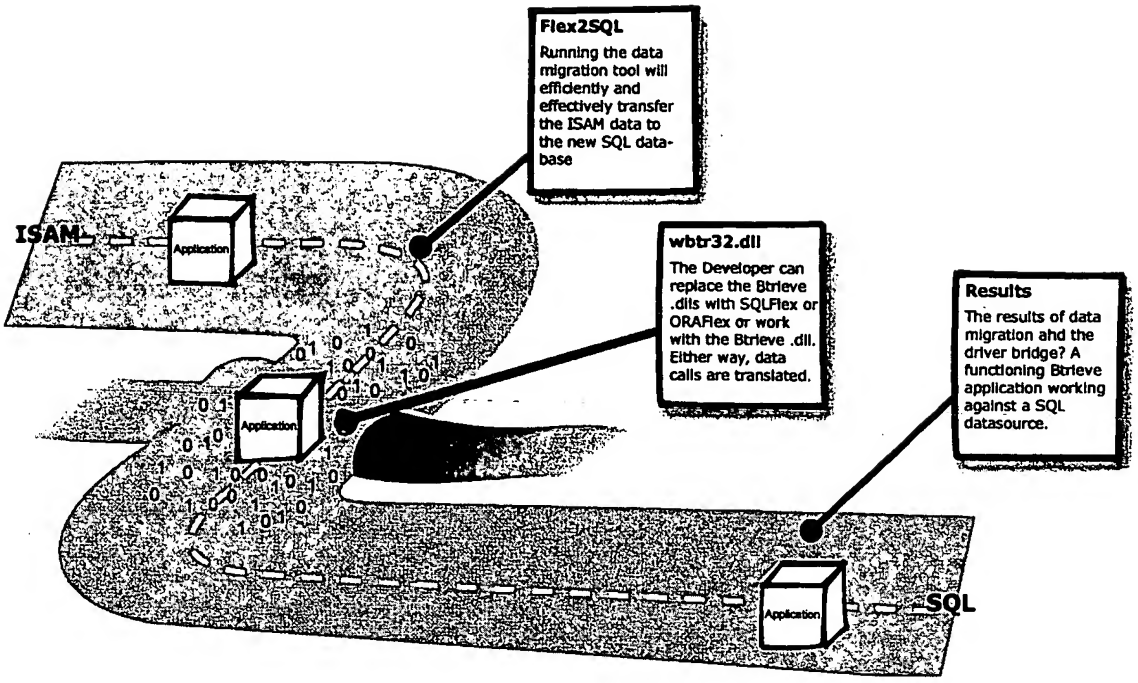
Flex2SQL
Running the data migration tool will efficiently and effectively transfer the ISAM data to the new SQL database
wbtr32.dll
The Developer can replace the Btrieve .dlls with SQLFlex or ORAFlex or work with the Btrieve .dll. Either way, data calls are translated.
Results
The results of data migration ahd the driver bridge? A functioning Btrieve application working against a SQL datasource.
ISAM
Application
Application
Application
SQL

FIG. 1

METHOD FOR MIGRATING AN APPLICATION DEVELOPED AROUND AN ISAM DATABASE SERVER TO AN SQL DATABASE SERVER WITHOUT SOURCE LEVEL CHANGES

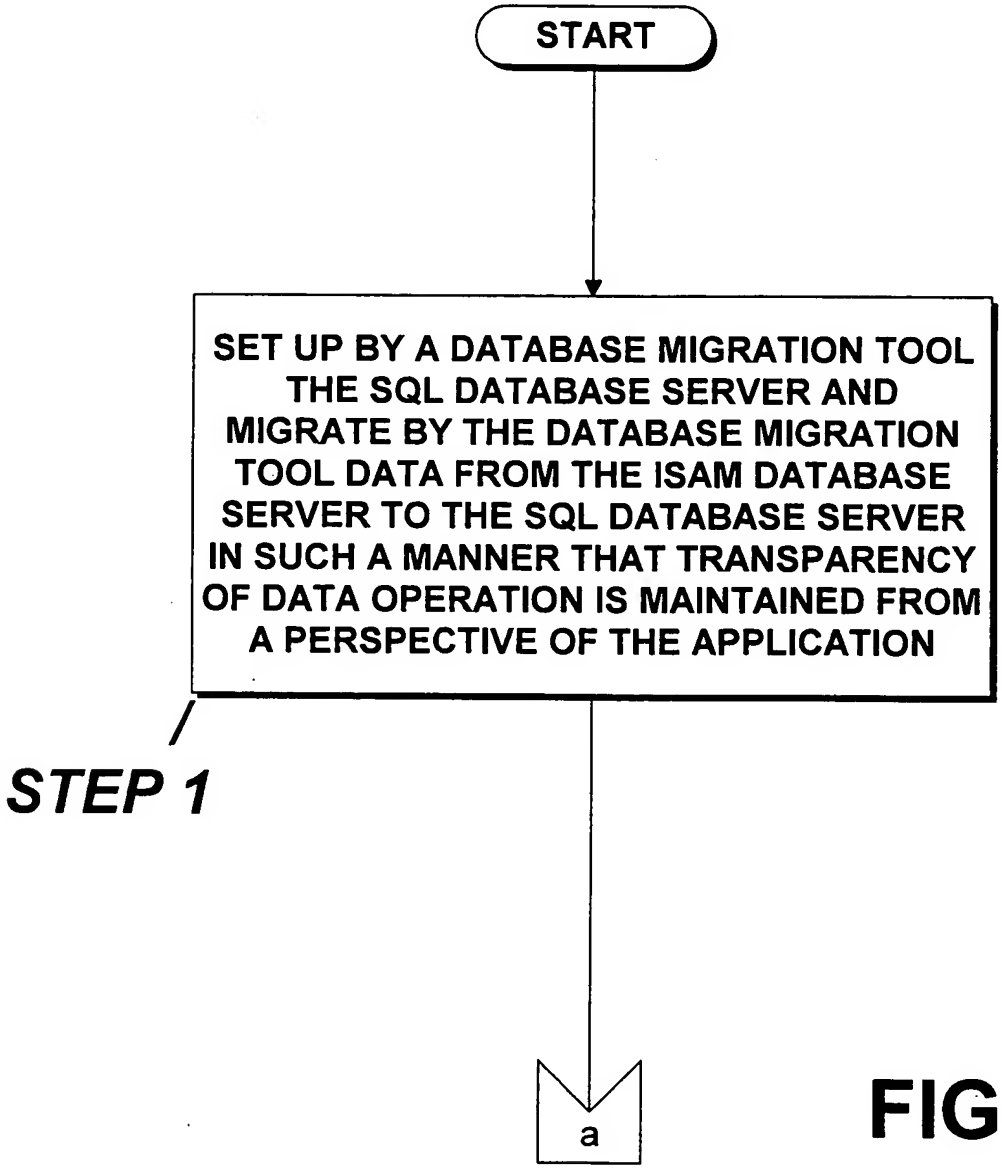

FIG. 2-A

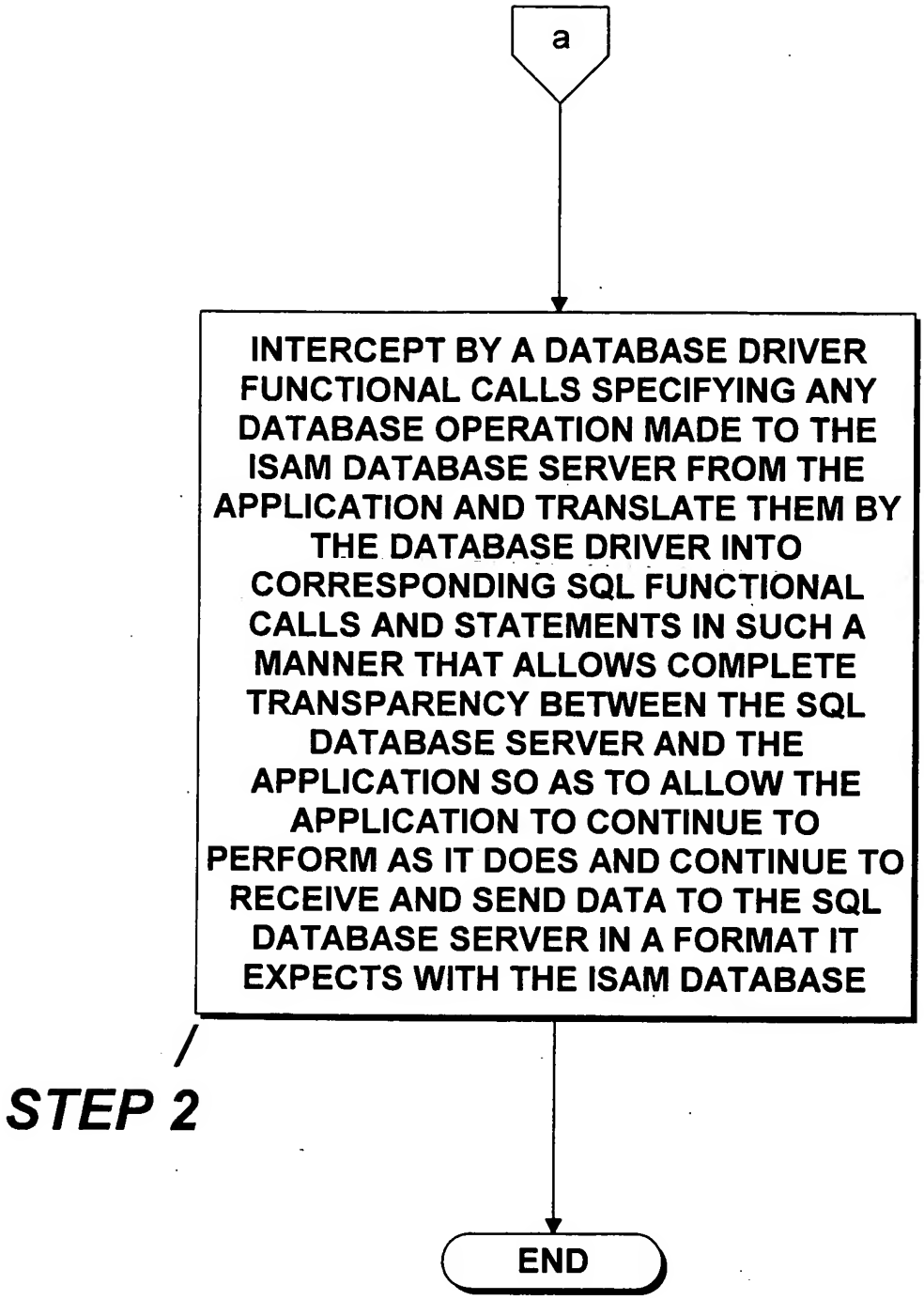
a
INTERCEPT BY A DATABASE DRIVER FUNCTIONAL CALLS SPECIFYING ANY DATABASE OPERATION MADE TO THE ISAM DATABASE SERVER FROM THE APPLICATION AND TRANSLATE THEM BY THE DATABASE DRIVER INTO CORRESPONDING SQL FUNCTIONAL CALLS AND STATEMENTS IN SUCH A MANNER THAT ALLOWS COMPLETE TRANSPARENCY BETWEEN THE SQL DATABASE SERVER AND THE APPLICATION SO AS TO ALLOW THE APPLICATION TO CONTINUE TO PERFORM AS IT DOES AND CONTINUE TO RECEIVE AND SEND DATA TO THE SQL DATABASE SERVER IN A FORMAT IT EXPECTS WITH THE ISAM DATABASE
STEP 2
END

FIG. 2-B

METHOD OF SETTING UP THE SQL DATABASE SERVER AND MIGRATING DATA FROM THE ISAM DATABASE SERVER TO THE SQL DATABASE SERVER USING THE DATABASE MIGRATION TOOL IN SUCH A MANNER THAT TRANSPARENCY OF DATA OPERATION IS MAINTAINED FROM A PERSPECTIVE OF THE APPLICATION

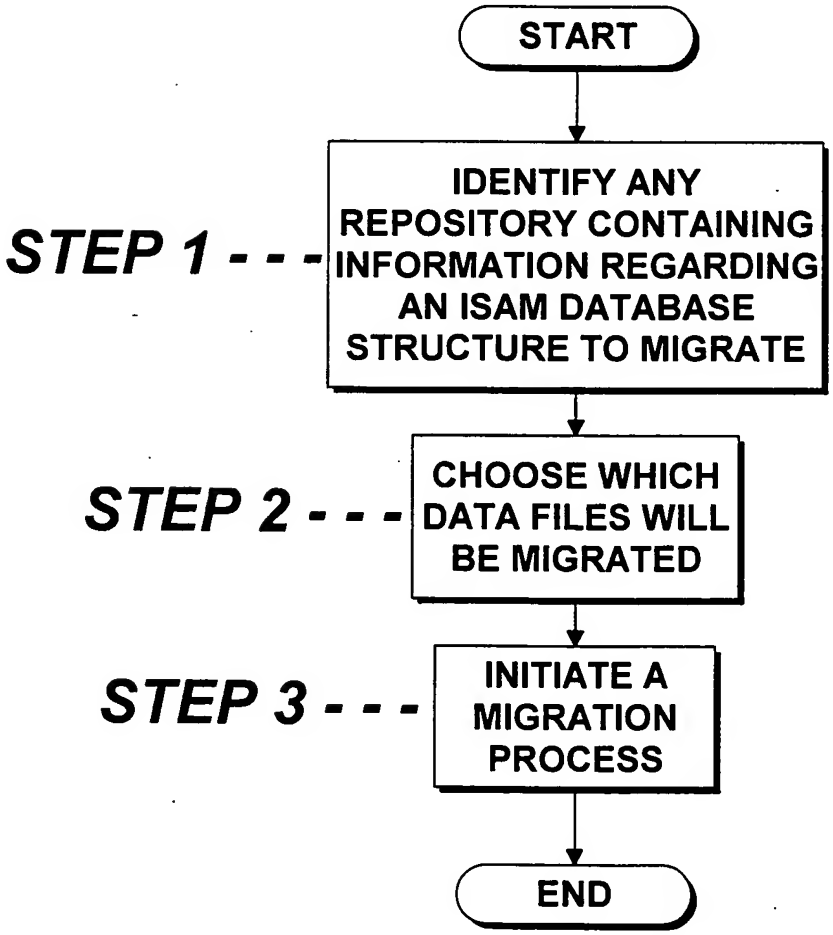

FIG. 3

METHOD OF IDENTIFYING ANY REPOSITORY CONTAINING INFORMATION REGARDING AN ISAM DATABASE STRUCTURE TO MIGRATE AND CHOOSING WHICH DATA FILES WILL BE MIGRATED

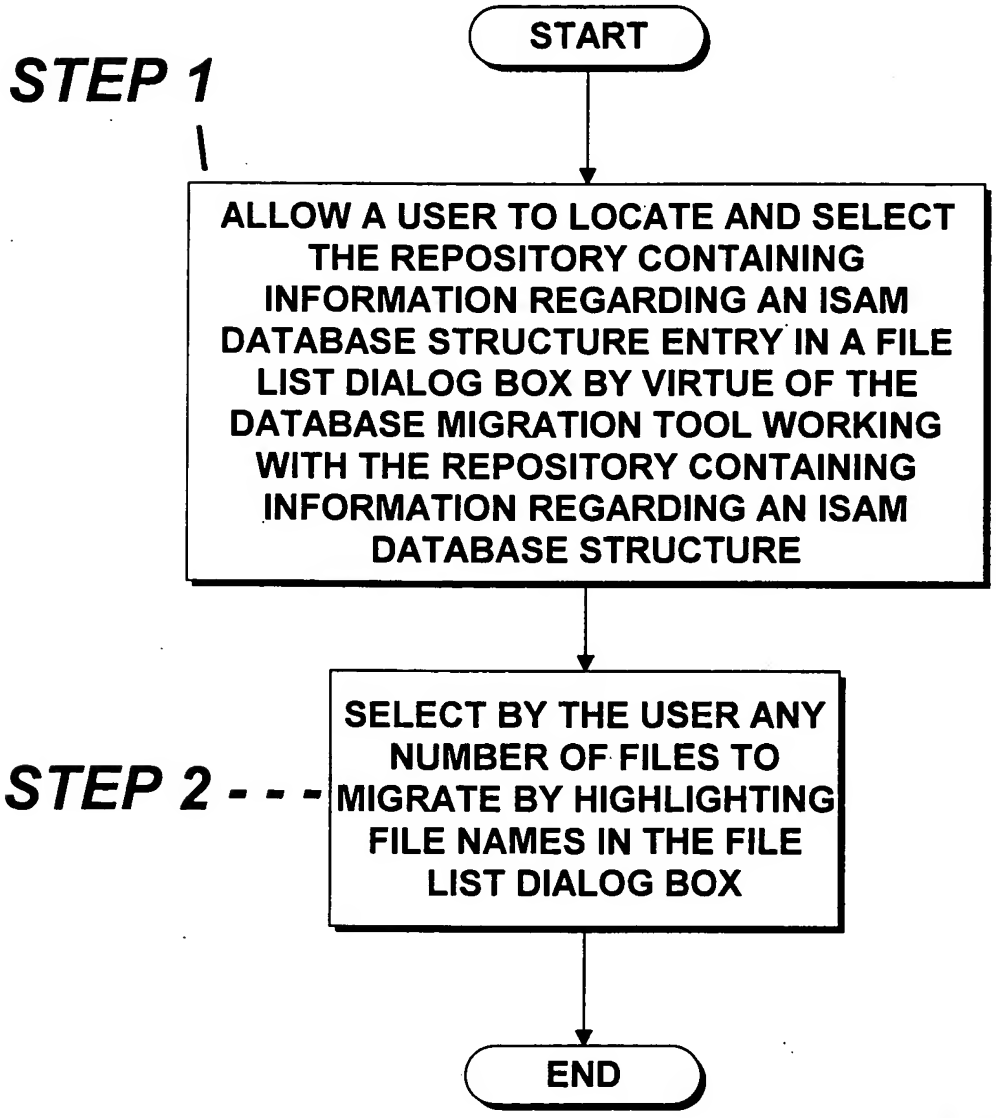

FIG. 4

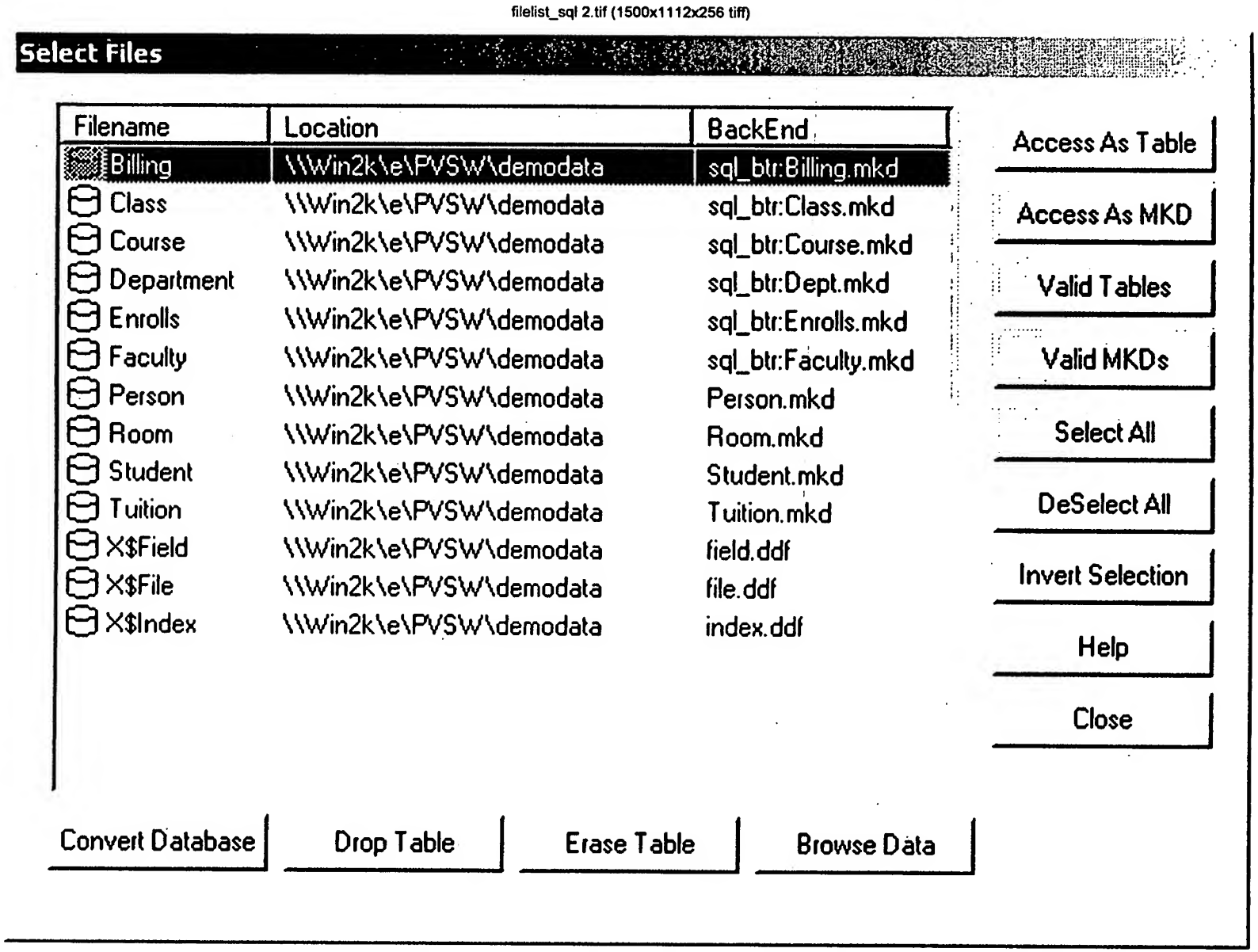
filelist_sql 2.tif (1500x1112x256 tiff)
Select Files
Filename
Location
BackEnd
Billing
\\Win2k\e\PVSW\demodata
sql_btr:Billing.mkd
Class
\\Win2k\e\PVSW\demodata
sql_btr:Class.mkd
Course
\\Win2k\e\PVSW\demodata
sql_btr:Course.mkd
Department
\\Win2k\e\PVSW\demodata
sql_btr:Dept.mkd
Enrolls
\\Win2k\e\PVSW\demodata
sql_btr:Enrolls.mkd
Faculty
\\Win2k\e\PVSW\demodata
sql_btr:Faculty.mkd
Person
\\Win2k\e\PVSW\demodata
Person.mkd
Room
\\Win2k\e\PVSW\demodata
Room.mkd
Student
\\Win2k\e\PVSW\demodata
Student.mkd
Tuition
\\Win2k\e\PVSW\demodata
Tuition.mkd
X$Field
\\Win2k\e\PVSW\demodata
field.ddf
X$File
\\Win2k\e\PVSW\demodata
file.ddf
X$Index
\\Win2k\e\PVSW\demodata
index.ddf
Access As Table
Access As MKD
Valid Tables
Valid MKDs
Select All
DeSelect All
Invert Selection
Help
Close
Convert Database
Drop Table
Erase Table
Browse Data

FIG. 5

METHOD OF INITIATING A MIGRATION PROCESS

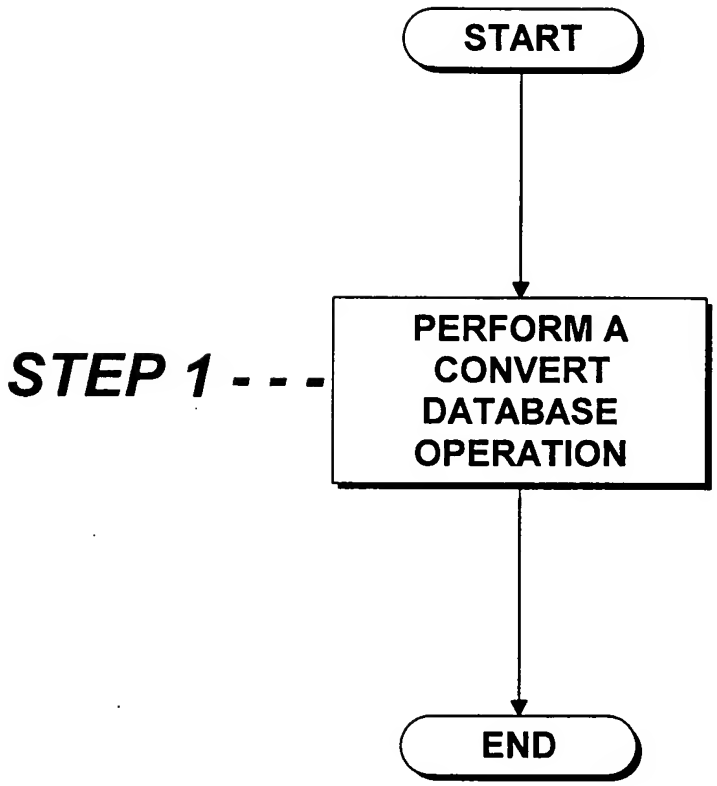

FIG. 6

METHOD OF PERFORMING A CONVERT DATABASE OPERATION

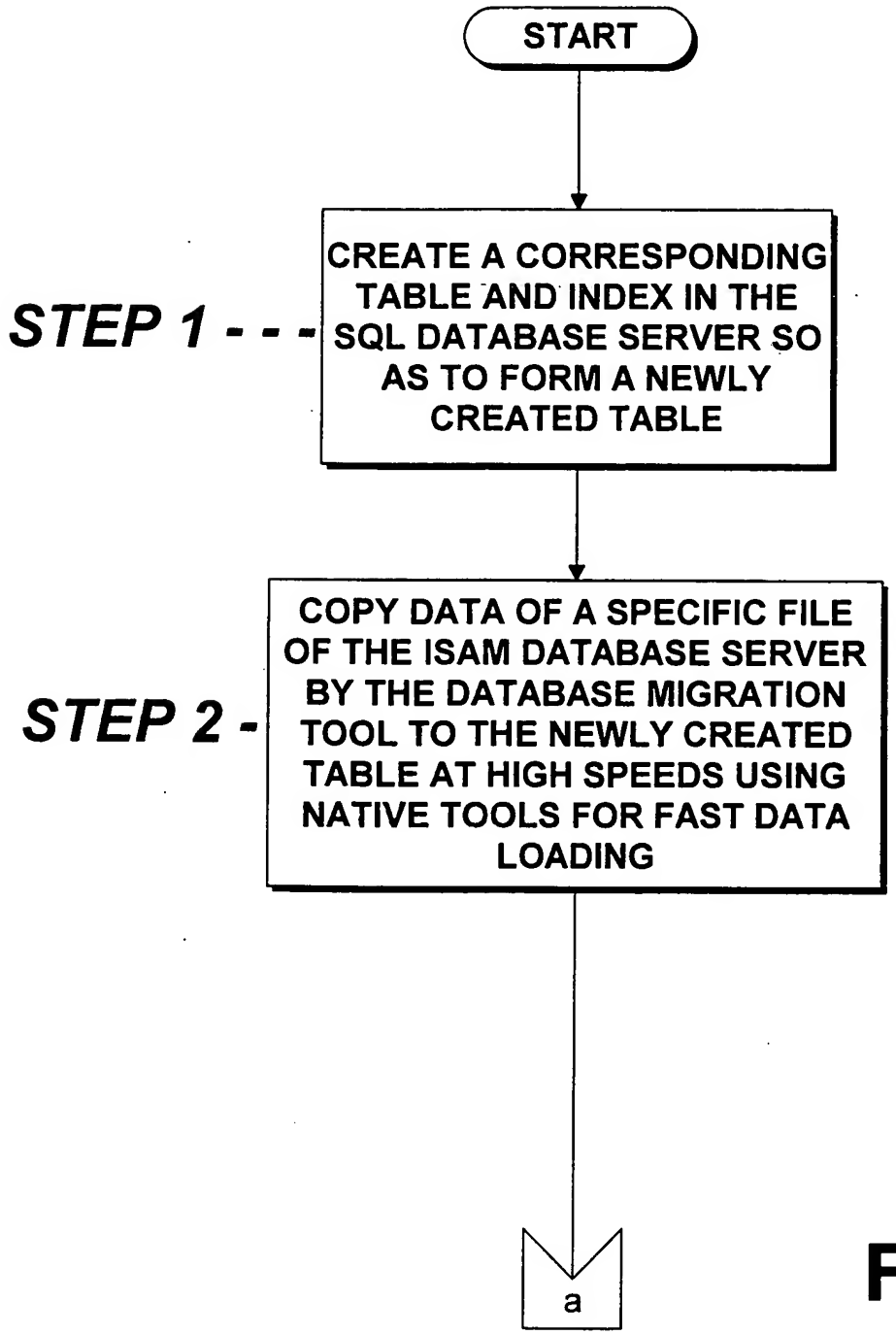

FIG. 7A

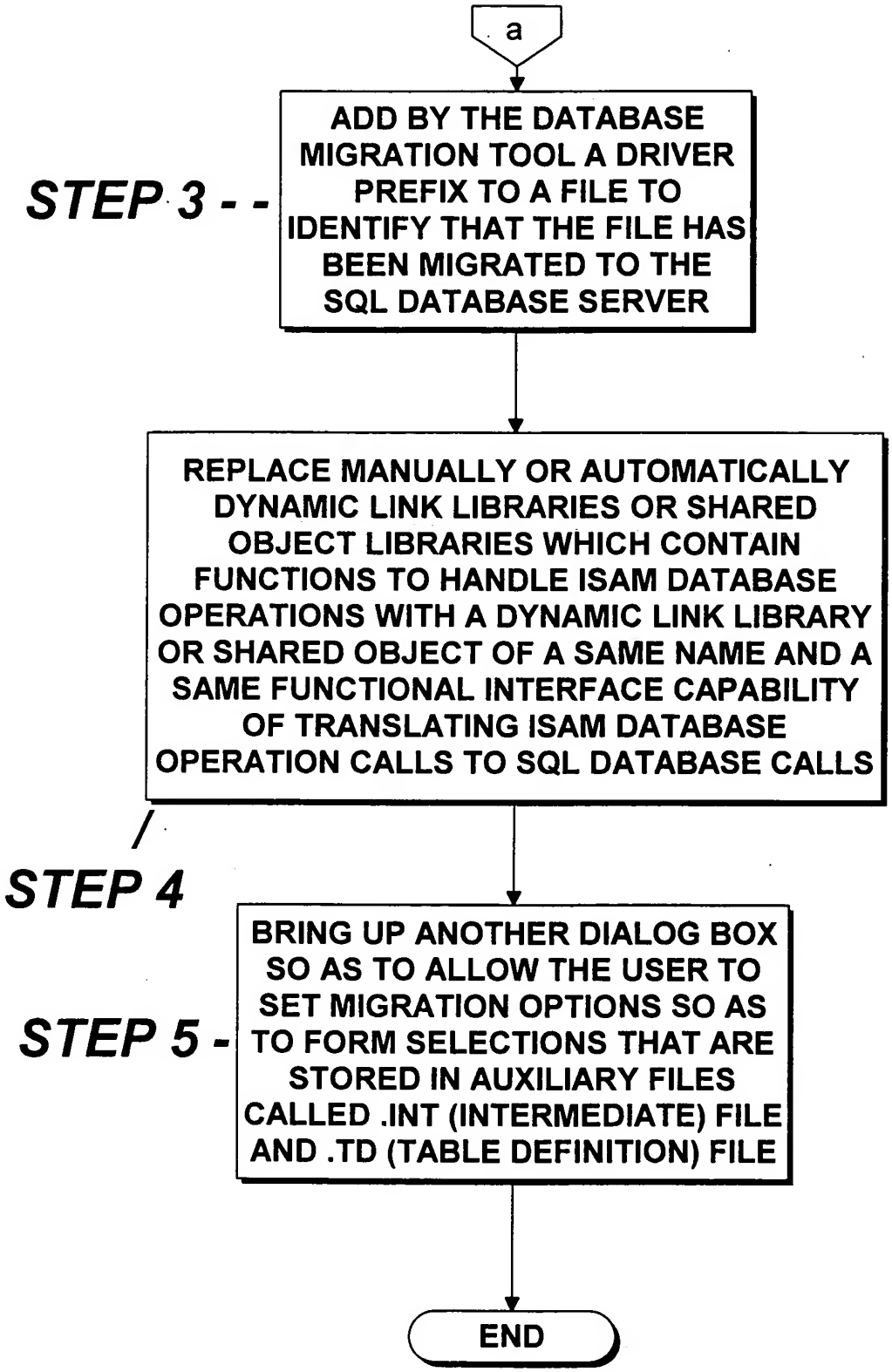
a
STEP 3 - -
ADD BY THE DATABASE MIGRATION TOOL A DRIVER PREFIX TO A FILE TO IDENTIFY THAT THE FILE HAS BEEN MIGRATED TO THE SQL DATABASE SERVER
REPLACE MANUALLY OR AUTOMATICALLY DYNAMIC LINK LIBRARIES OR SHARED OBJECT LIBRARIES WHICH CONTAIN FUNCTIONS TO HANDLE ISAM DATABASE OPERATIONS WITH A DYNAMIC LINK LIBRARY OR SHARED OBJECT OF A SAME NAME AND A SAME FUNCTIONAL INTERFACE CAPABILITY OF TRANSLATING ISAM DATABASE OPERATION CALLS TO SQL DATABASE CALLS
STEP 4
STEP 5 -
BRING UP ANOTHER DIALOG BOX SO AS TO ALLOW THE USER TO SET MIGRATION OPTIONS SO AS TO FORM SELECTIONS THAT ARE STORED IN AUXILIARY FILES CALLED .INT (INTERMEDIATE) FILE AND .TD (TABLE DEFINITION) FILE
END

FIG. 7B

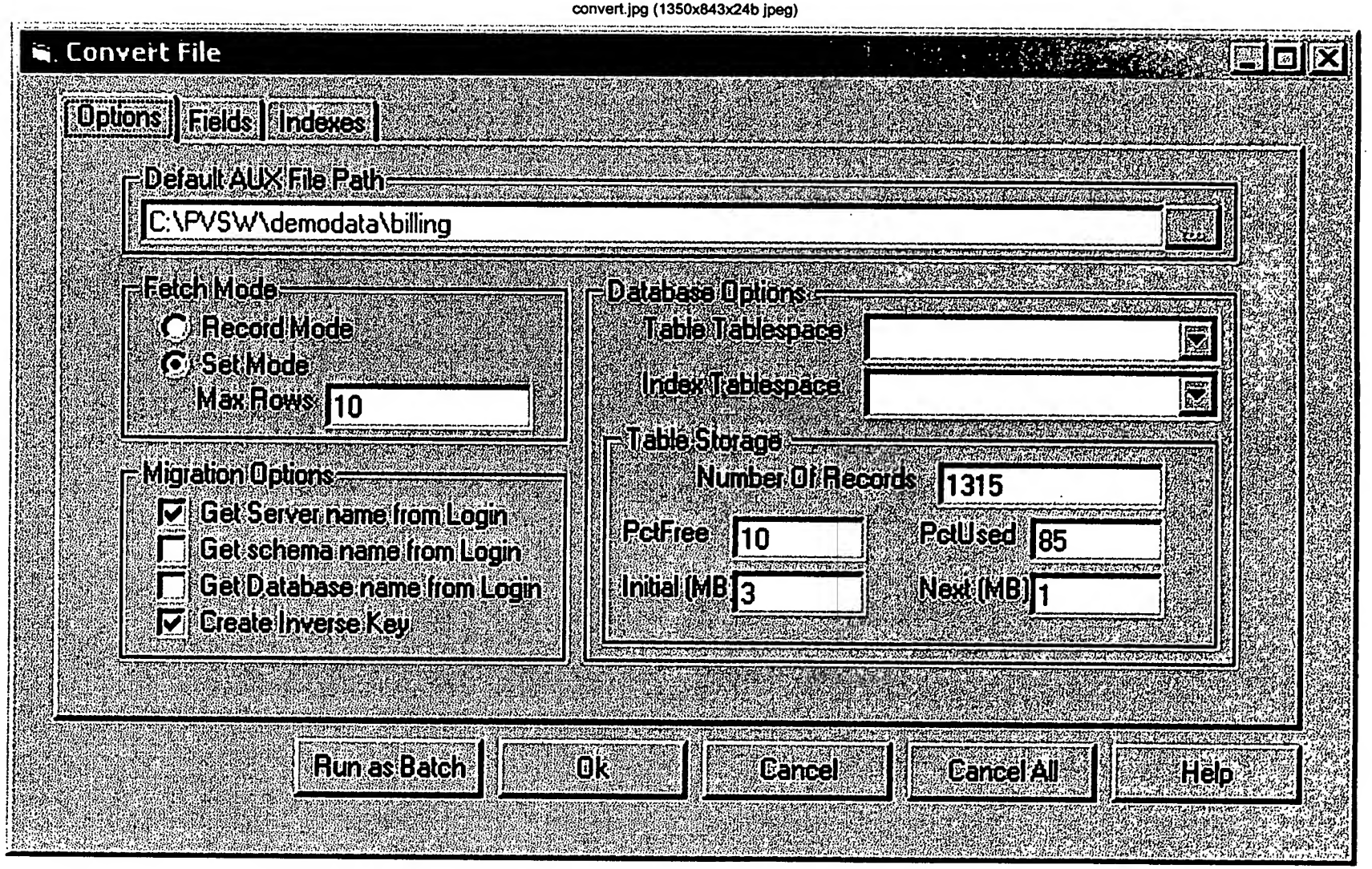
convert.jpg (1350x843x24b jpeg)
Convert File
Options
Fields
Indexes
Default AUX File Path
C:\PVSW\demodata\billing
Fetch Mode
Record Mode
Set Mode
Max Rows 10
Migration Options
Get Server name from Login
Get schema name from Login
Get Database name from Login
Create Inverse Key
Database Options
Table Tablespace
Index Tablespace
Table Storage
Number Of Records 1315
PctFree 10
PctUsed 85
Initial (MB 3
Next (MB) 1
Run as Batch
Ok
Cancel
Cancel All
Help

FIG. 8

dll interaction.jpg (1400x1871x24b jpeg)

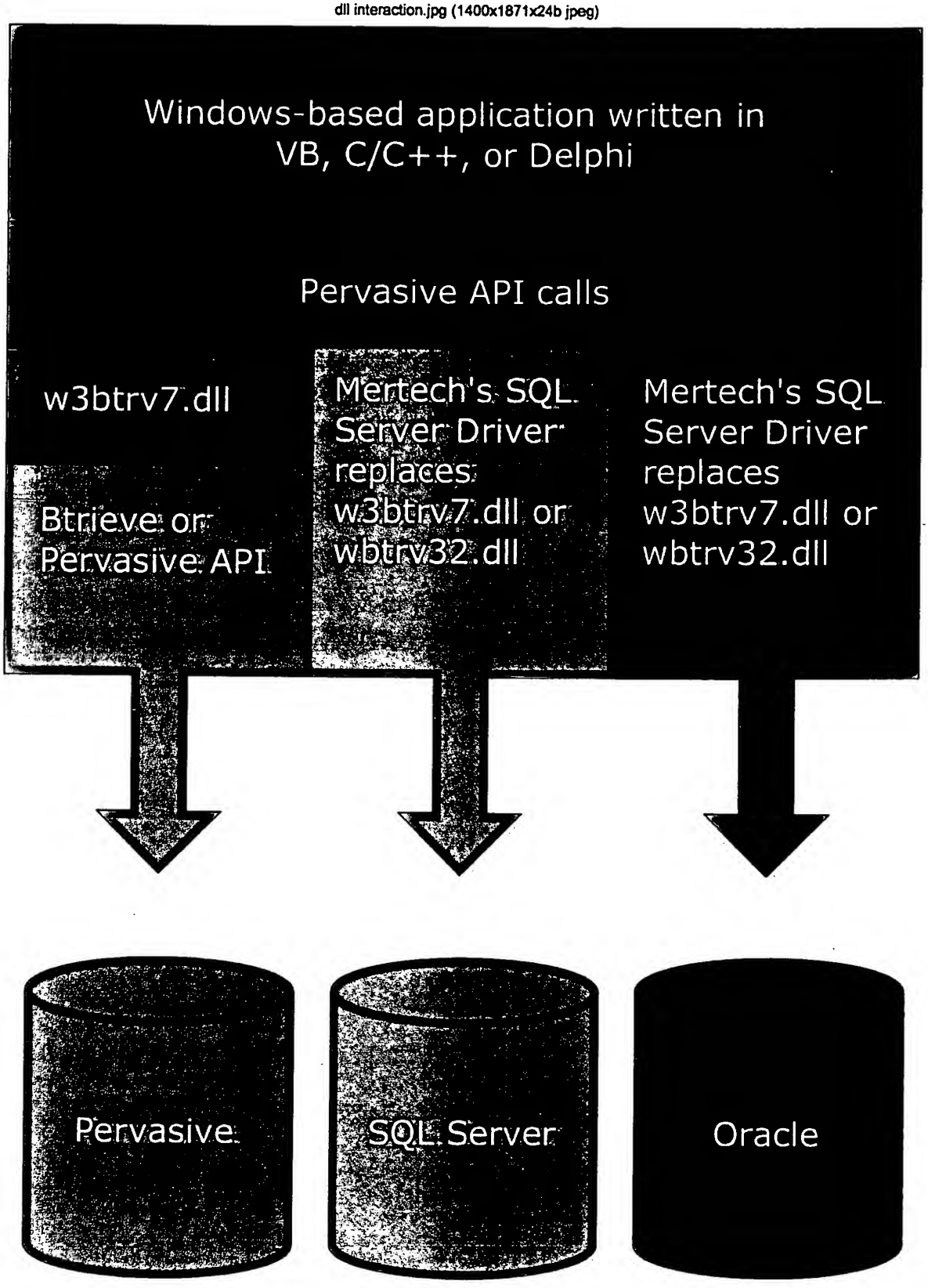

FIG. 9

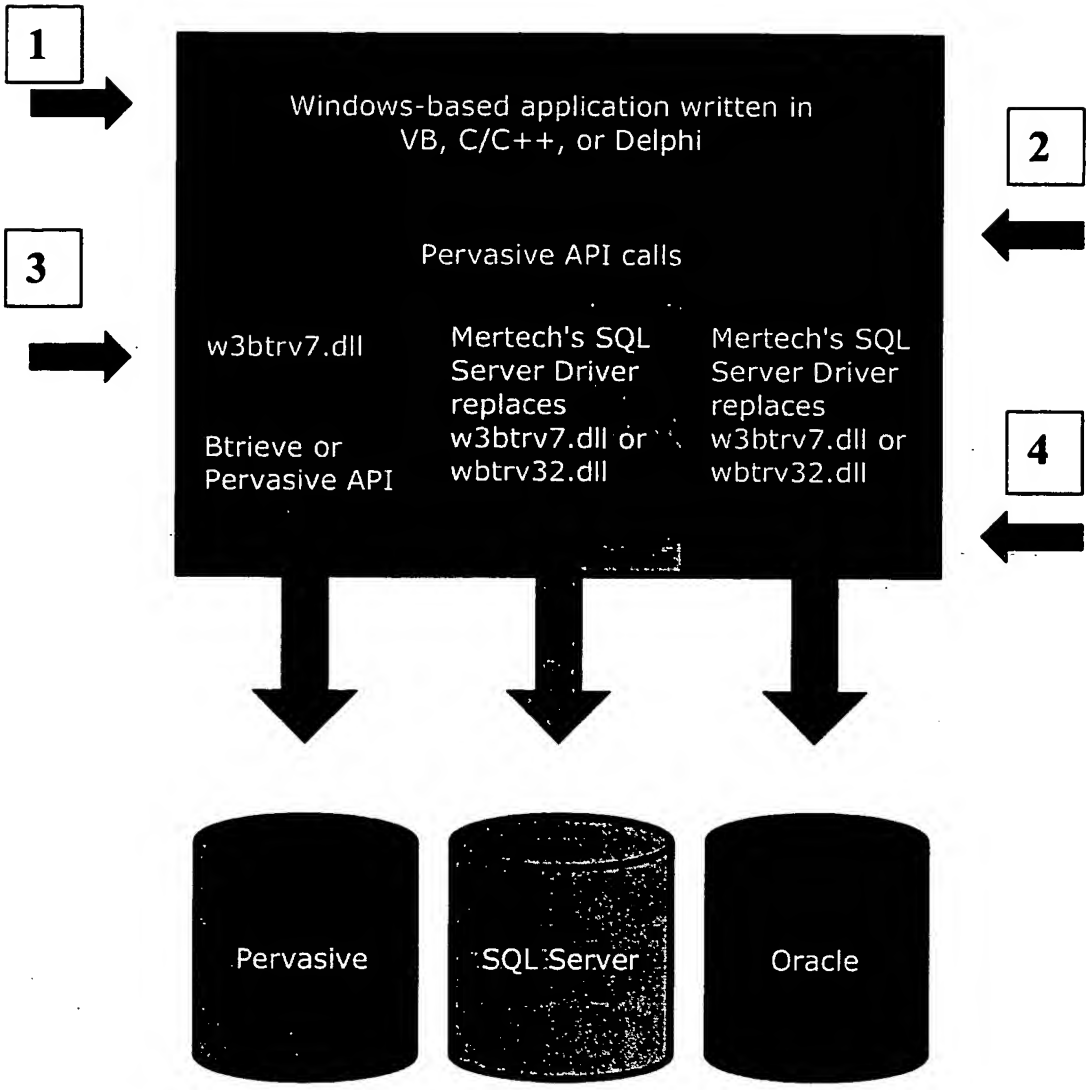
1
Windows-based application written in VB, C/C++, or Delphi
2
3
Pervasive API calls
w3btrv7.dll
Mertech's SQL Server Driver replaces w3btrv7.dll or wbtrv32.dll
Mertech's SQL Server Driver replaces w3btrv7.dll or wbtrv32.dll
Btrieve or Pervasive API
4
Pervasive
SQL Server
Oracle

FIG. 10